

FIG. 1

1	accagcgcaacttcggcagcggcagcacctcggcagcacctcagcagcaacatgccagca	60
1	tggtcgcgtgaagccgtcgccgtcgtggagccgtcgtggagtcgtcgttgtagcgggtcgt	
	M P S K	
61	agaagaatggaagaagcggaccccaaccacataaaagggtgggtgttcacgctgaataatc	120
1	tcttcttaccttcttcgcctgggggttggtgtattttccaccacaagtgcgacttattag	
	K N G R S G P Q P H K R W V F T L N N P	
121	cttccgaagacgagcgcgaagaaaatacgggagctcccaatctccctatttgattatttta	180
1	gaaggcttctgctcgcgttcttttatgccctcgaggggttagagggataaactaataaaat	
	S E D E R K K I R E L P I S L F D Y F I	
181	ttgttggcgaggagggtaatgaggaaggacgaacacctcacctccaggggttcgctaatt	240
1	aacaaccgctcctcccattactccttctgcttggtggagtgagggtccccaagcgattaa	
	V G E E G N E E G R T P H L Q G F A N F	
241	ttgtgaagaagcaaacttttaataaagtgaagtgggtatttgggtgcccgtgccacatcg	300
1	aacacttcttcgtttgaaaattatttccacttcaccataaaccacgggacggtgtagc	
	V K K Q T F N K V K W Y L G A R C H I E	
301	agaaagccaaaggaactgatcagcagaataaagaatattgtagtaaagaaggcaacttac	360
1	tctttcggtttccttgactagtcgtcttatttcttataacatcatttcttccggtgaatg	
2	K A K G T D Q Q N K E Y C S K E G N L L	
	*	
361	ttattgaatgtggagctcctcgatctcaaggacaacggagtgacctgtctactgctgtga	420
1	aataacttacacctcgaggagctagagttcctggtgcctcactggacagatgacgacact	
2	I E C G A P R S Q G Q R S D L S T A V S	
3	K N F T S S R S R L S L P T V Q R S S H	
	* P C R L S R D V A T	
421	gtaccttggtggagagcgggagtcgtggtgaccgttgacagcagcaccttgtaacgtttg	480
1	catggaacaacctctcgccctcagaccactggcaacgtctcgtcgtgggacattgcaaac	
2	T L L E S G S L V T V A E Q H P V T F V	
3	T G Q Q L A P T Q H G N C L L V R Y R K	
	L V K N S L P L R T V T A S C C G T V N	
481	tcagaaatttccgcgggctggctgaacttttgaaagtgagcgggaaaatgcagaagcgtg	540
1	agtctttaaaggcgcccgaccgacttgaaaactttcactcgcccttttacgtcttcgcac	
2	R N F R G L A E L L K V S G K M Q K R D	
3	D S I E A P Q S F K Q F H A P F H L L T	
	T L F K R P S A S S K F T L P F I C F R	
541	attggaagaccaatgtacacgtcattgtggggccacctgggtgtggtaaaagcaaattggg	600
4	taaccttctggttacatgtgcagtaacaccccggtggaccacaccattttcgtttaccc	
1	M Y T S L W G H L G V V K A N G	
2	W K T N V H V I V G P P G C G K S K W A	
3	I P L G I Y V D N H P W R P T T F A F P	
	S Q F V L T C T M	
601	ctgctaattttgcagacccggaaaccacataactggaaaccacctagaacaagtgggtggg	660
4	gacgattaaaacgtctgggccttttggtgtatgacctttgggtggatctttgttcaccaccc	
1	L L I L Q T R K P H T G N H L E T S G G	
2	A N F A D P E T T Y W K P P R N K W W D	
	S S I K C V R F G C V P F W R S V L P P	

FIG. 2A

	661	atggttaccatggtgaagaagtgggttggtattgatgacttttatggctggctgccgtggg	720
		taccaatggtaccacttcttcaccaacaataactactgaaaataccgaccgacggcaccc	
4		M V T M V K K W L L L M T F M A G C R G	
1		G Y H G E E V V V I D D F Y G W L P W D	
2		I T V M	
	721	atgatctactgagactgtgtgatcgatatccattgactgtagagactaaaggtggaactg	780
		tactagatgactctgacacactagctataggtaactgacatctctgatttccaccttgac	
4		M I Y *	
1		D L L R L C D R Y P L T V E T K G G T V	
	781	taccttttttggcccgagctattctgattaccagcaatcagaccccggttggatgggtact	840
		atggaaaaaacggggtcgatcataagactaatgggtcgtagtctggggcaaccttaccatga	
1		P F L A R S I L I T S N Q T P L E W Y S	
	841	cctcaactgctgtcccagctgtagaagctctctatcgaggattacttccttggtatttt	900
		ggagttgacgacaggggtcgacatcttcgagagatagcctcctaataaggaaccataaaa	
1		S T A V P A V E A L Y R R I T S L V F W	
	901	ggaagaatgctacaaaacaatccacggaggaagggggccagttcgtcaccctttcccccc	960
		ccttcttacgatgttttggttaggtgcctccttcccccggtcaagcagtgggaaagggggg	
1		K N A T K Q S T E E G G Q F V T L S P P	
	961	catgccctgaatttccatatgaaataaattactgagtccttttttatcacttcgtaatggt	1020
		gtacgggacttaaggtatacttttatttaatgactcagaaaaaatagtgaagcattacca	
5			M V
1		C P E F P Y E I N Y *	
	1021	ttttattattcatttaggggtcaagtgggggggtctttaagattaaattctctgaattgta	1080
		aaaataataagtaaatacccaagttcacccccagaaattctaatttaagagacttaacat	
5		F I I H L G F K W G V F K I K F S E L Y	
6		* P E L P P D K L N F E R F Q	
	1081	catacatgggttacacggatattgtagtcctgggtcgtagtttactgttttcgaacgcagtg	1140
		gtatgtaccaatgtgcctataacatcaggaccagcataaatgacaaaagcttgcgtcacg	
5		I H G Y T D I V V L V V F T V F E R S A	
6		V Y M T V R I N Y D Q D Y K S N E F A T	
	1141	cgaggcctacgtgggtccacatttccagaggtttgtagcctcagccaaagctgattccttt	1200
		gctccggatgcaccaggtgtaaaggtctccaaacatcgagagtcgggtttcgactaaggaaa	
5		E A Y V V H I S R G L *	
6		G L G V H D V N G S T Q L R L W L Q N R	
	1201	tgttatttggttggaagtaataatagtgaggagcaagaacaggtttgggtgtgaagtaac	1260
		acaataaaccaaccttcattagttatcacctcagttcttggtccaaacccacacttcattg	
6		K N N P Q F Y D I T S D L V P K P T F Y	
	1261	gggagtggttaggagaaggggtgggggattgtatggcgggaggagtagtttacatatgggt	1320
		ccctcaccatcctcttcccaacccccctaataccgccctcctcatcaaatgtataacca	
6		R S H Y S F P Q P I T H R S S Y N V Y P	
	1321	cataggttagggctgtggcctttgttacaaagttatcatctaaaataacagcagtgaggc	1380
		gtatccaatcccagacaccggaaacaatgtttcaatagtagattttattgtcggtcacctcg	
6		D Y T L A T A K T V F N D D L I V A T S	

FIG. 2B

1381	ccactccctatcacccctgggtgatgggggagcaaggccagaattcaacctaacccttc	1440
6	ggtgaggggtagtggaaccactacccctcggtccgtcttaagtggaaattggaaaag	
	G V G R D G Q T I P S C P W F E V K V K	
1441	ttattctgtagtattcaaaaggtatagagattttgttgggtccccctcccggggaacaa	1500
6	aataagacatcataagtttcccatatctctaaacaaccaggggggagggccccctgtt	
	R I R Y Y E F P I S I K N T G G G P P V	
1501	agtcgtcaattttaatctcatcatgtccaccgccagggcggttgtagctgtggtac	1560
6	tcagcagttaaaatttagagtagtacaggtggcggtcctcccgcaacactgacaccatg	
	F D D I K F R M M D V A W S P T T V T T	
1561	gcttgacagtatatccgaaggtgcgggagagggcggttggaagatgccattttccttc	1620
6	cgaactgtcatataggcttccacgcccctctccgcccaacttctacggtaaaaaggaag	
	R K V T Y G F T R S L R T N F I G N K R	
1621	tccaacggtagcgggtggcggtggacgagccagggcgggcgaggatctggccaa	1680
6	aggttgccatcgccacgccccacctgctcggtccccgcgcgcctcctagaccggtt	
	R W R Y R H R P H V L W P R R R L I Q G	
1681	gatggctgcggggcggtgtcttcttcggttaacgcctccttggtacgtcatagctg	1740
6	ctaccgacgcccccgccacagaaagacgccattgcggaagaaacctatgcagtatcgac	
	L H S R P R H R R R R Y R R R R P Y T M	
1741	aaaacgaaagaagtgcgctgtaagtatt	1800
	ttttgcttttcttcacgcgacattcataa	

FIG. 2C

	10	20	30	40	50	60
	MPSKKNGRSGPQPHKRWVFTLNNPSEDERKKIRELPISLFDYFIVGEEGNEEGRTPHLQG					

—	MPSKK---SGPQPHKRWVFTLNNPSEEEKNKIRELPISLFDYFVCGEEGLEEGRTPHLQG					
	10	20	30	40	50	
	70	80	90	100	110	120
	FANFVKKQTFNKVKWYLGARCHIEKAKGTDQQNKEYCSKEGNLLIECGAPRSQGQRSDLS					
					
—	FANFAKKQTFNKVKWYFGARCHIEKAKGTDQQNKEYCSKEGHILIECGAPRNQGKRSDLS					
	60	70	80	90	100	110
	130	140	150	160	170	180
	TAVSTLLESGILVTVAKQHPVTFVKNFRGLAELLKVSGKMQRDWKTNVHFIVGPPGCGK					
					
—	TAVSTLLETGSLVTVAEQFPVTYVRNFRGLAELLKVSGKMQRDWKTAVHVIVGPPGCGK					
	120	130	140	150	160	170
	190	200	210	220	230	240
	SKWAANFANPETTYWKPPKNKWWDGYHGEKVVIDDFYGWLPWDDLLRLCDRYPLTVKTK					
					
—	SQWARNFAEPRDTYWKPSRNKWWDGYHGEEVVLDLDFYGWLPWDDLLRLCDRYPLTVETK					
	180	190	200	210	220	230
	250	260	270	280	290	
	GGTVPFLARSILITSNQTPLEWYSSTAVPAVEALYRRITSLVFWKNATKQSTE-EGGQFV					
					
—	GGTVPFLARSILITSNQAPQEWYSSTAVPAVEALYRRITTLQFWKTAGEQSTEVEGRFE					
	240	250	260	270	280	290
	300	310				
	TLSPPCPEFPYEINY					
					
—	AVDPPCALFPYKINY					
	300	310				

FIG. 3A

	10	20	30	40	50	60
	MVTIPPLVFRWFPVCGFRVCKISSPFAFTTPRWPHNEVYIGFPITLLHFP AHFQKFSQPA					
	:	:
—	MISIPPLISTR LPVGVPRLSKITG PLALPTTGRAHYDVYSCLPITLLHLP AHFQKFSQPA					
	10	20	30	40	50	60
	70	80	90	100		
	EIFDKRYRVLLCNGHQNPALQQGTHSSRQVTPLSLRSRSSTFNK-----					
	::	:::	::	:::	:	: :
—	EISHIRYRELLGYSHQRPRLQKGTHSSRQVAALPLVPRSSTLDKYVAFFTAVFFILLVGS					
	70	80	90	100	110	120

—	FRFLDVAAGTKIPLHLVKSLLLSKIRKPLEVRSSTLFTFLSANKI IKKGDWKL PYFVFL					
	130	140	150	160	170	180

—	LLGRIIKGEHPPLMGLRAAFLAWHFH					
	190	200				

FIG. 3D

PCV	ATTGTACATAAATAGTCAGCCTTACACATAATTTTGGGCTGTGGCTGCA·TTTGTGGAGCGCATAGCCGAGGCTGTGCTCGACATTGGTGGGTATTTAAATGGAGCCACAGCTGG	
412	C G T CA GG TATTG G CC T - ATT A TG C A GT AC G C TCCAGA T G GCCTC A A	
9741	C G T CA GG TATTG G CC T - ATT A TG C A GT AC G C TCCAGA T G GCCTC A A	
B9	C G T CA GG TATTG G CC T - ATT A TG C A GT AC G C TC AGA T G GCCTC A A	
PCV	TTTCTTTTATTATTGGGTGGAACCAATCAATTGTTTGTCCAGCTCAGGTTTGGGGTGAAGTACCTGGAGTGGTAGGTAAGGGCTGCCCTTATGGTGTGGCGGAGGAGTAGTTAATA	
412	C G T T GT A GGA A AA T T A G AG T GGG T A T C	
9741	C G T T GT A GGA A AA T T A G AG T GGG T A T C	
B9	C G T T GT A GGA A AA T T A G AG T GGG T A T C	
PCV	TAGGGTTCATAGGCCAAGTTGTGGAGGGGTTACAAAGTTGGCATCCAGATAACAACAGTGGACCCACACCTCTTTGATTAGAGGTGATGGGGTCTCTGGGGTAAATTCATATTTA	
412	T TT G GCT CTTTT AT T A G G C T C A C CCCTG GAG AA CC G ACC	
9741	T TT G GCT CTTTT AT T A G G C T C A C CCCTG GAG A CC G ACC	
B9	T TT G GCT CTTTT AT T GA G G C T C A C CCCTG GAG A CC G ACC	
PCV	GCCTTTCTAATACGGTAGTATTGGAAGGTAGGGGTAGGGGTTGGTGCCGCTGAGGGGGGAGGAACCTGGCGATGTTGAAATTTAGGTAGTTAACATTCCAAGATGGC·-TGGGAGT	
412	A T T T CA G CA G TA AG TTTT C C CCC A CA G C T A T A C C TCAT CC CGC G G GT T C	
9741	A T T T CA G CA G TA AG TTTT C C CCC A CA G C T A T A C C TCAT CC CGC G G GT T C	
B9	A T T T CA G CA G TA AG TTTT C C CCC A CA G C T A T A C C TCAT CC CGC G G GT T C	
PCV	ATCCTCCTTTT·ATGGTGAGTACAAATTCCTGTAGAAAGCGGGGAATTGAAGATACCCGTCTTTTCGGCGCCATCTGTAAACGGTTTCTGAAGCGGGG·TGTGCCAAATATGGTCTTCTCCG	
412	G GG A GC G CA ATA C G GGTGCGG G TG G AT T C TT T A G G ······ G GA G GCC G G GG GG	
9741	G GG A GC G CA ATA C G GGTGCGG G TG G AT T C TT T A G G ······ G GA G GCC G G GG GG	
B9	G GG AGC G CA ATA C G GGTGCGG G TG G AT T C TT T A G G ······ G GA G GCC G G GG GG	
PCV	GAGGATGTTTCCCAAGATGGCTGCGGGGGGGGCTCTTCTCTCGGTACGCCCTCCTTGGCCACGTCATCCTATATAAAGTGAAGAAGTGGCGCTGCTGTA·GTATT	
412	C GG TGT AT AGCTG C· ··· A	
9741	C GG TGT AT AGCTG C· ··· A	
B9	C GG TGT AT AGCTG C· ··· A	

FIG. 4B

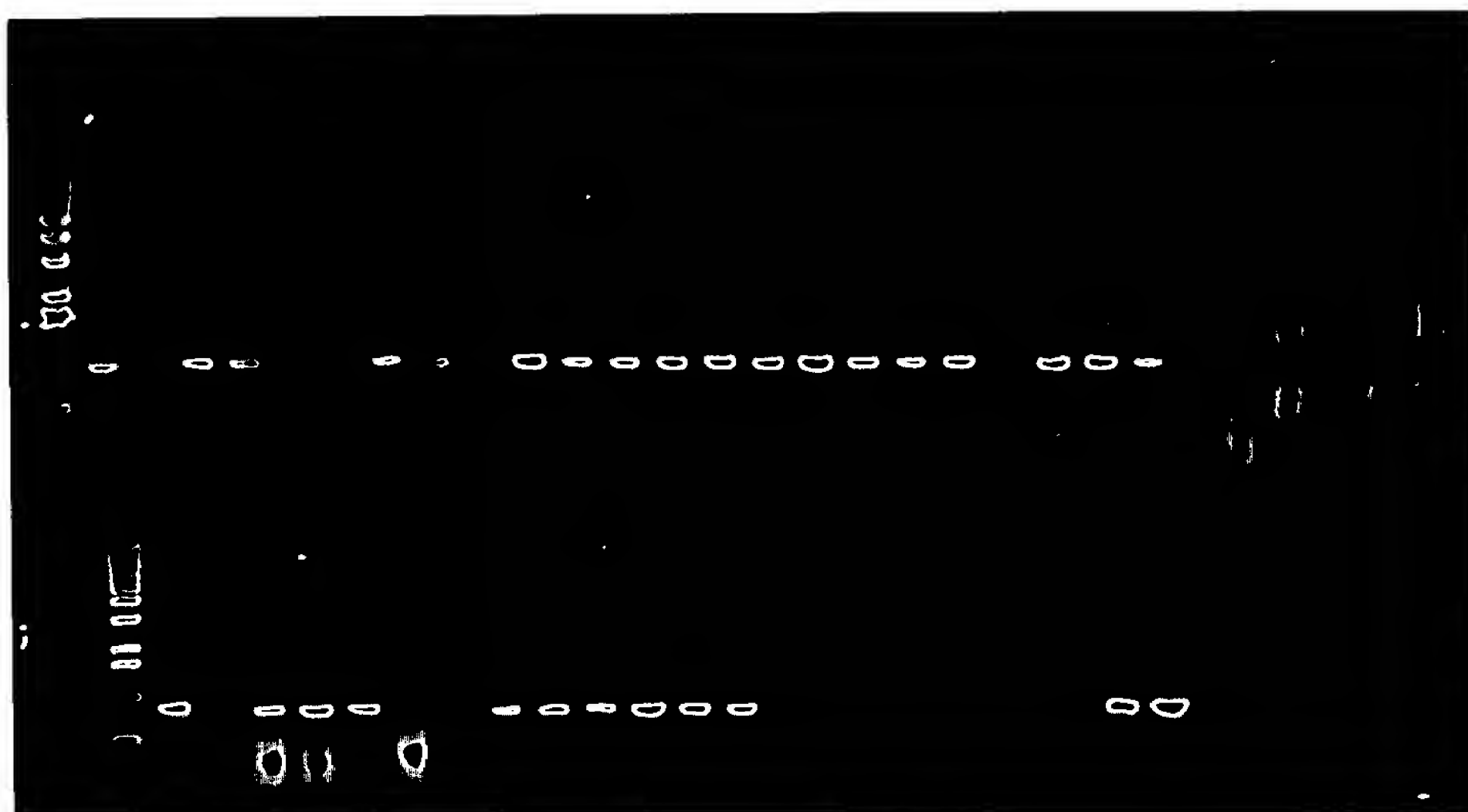


FIG. 6

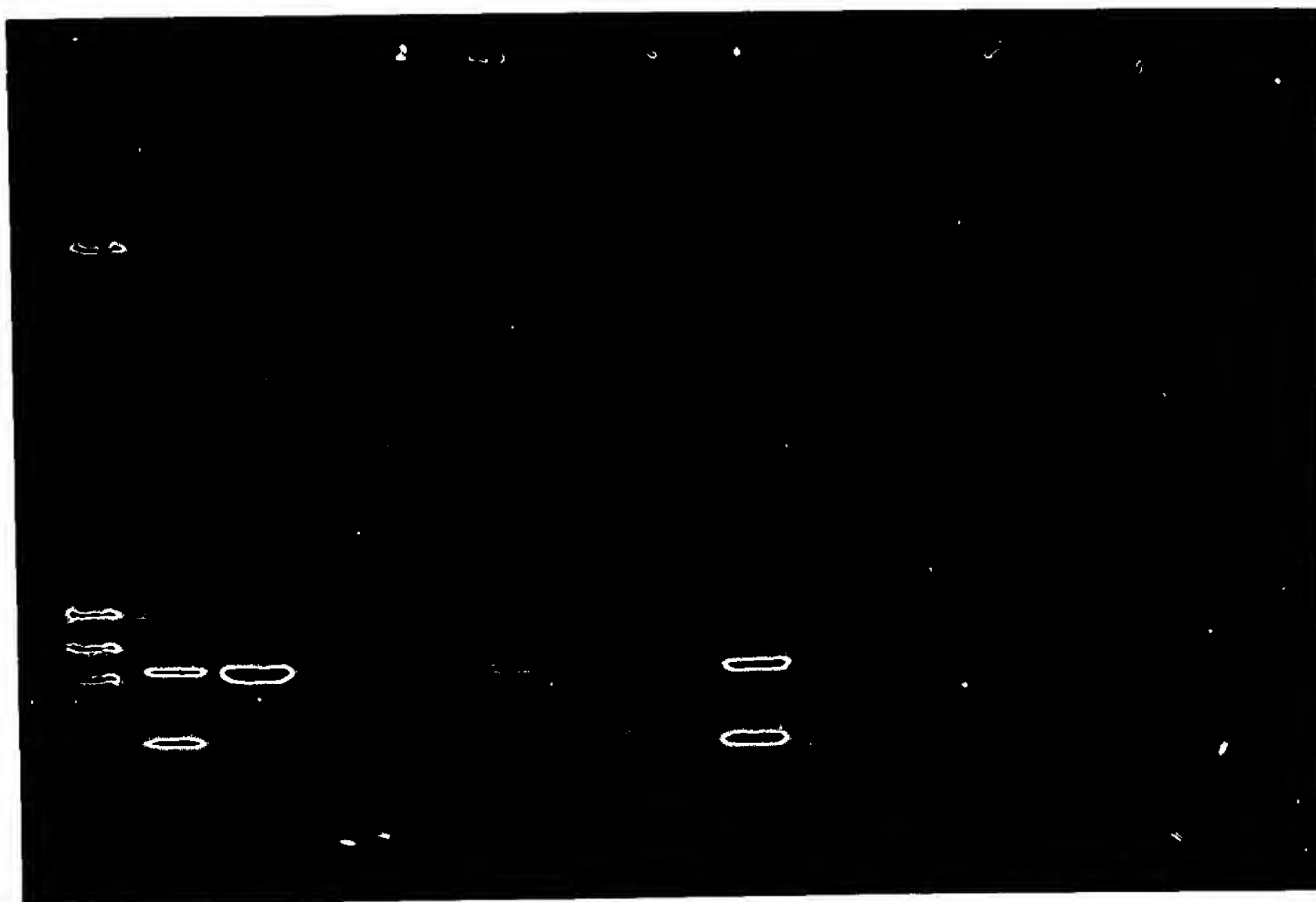


FIG. 5